Marvair®
AIRXCEL®, Inc.
ISO 9001 2000 REGISTERED COMPANY

User's Information
GPac Wall Mount
Air Conditioner with Gas Heat
Models AVG24-30-36-42-48-60

⚠ WARNING

FIRE OR EXPLOSION HAZARD

Failure to follow safety warnings exactly could result in serious injury, death or property damage.

Do not store or use gasoline or other flammable vapors or liquids in the vicinity of this or any other appliance.

WHAT TO DO IF YOU SMELL GAS

- **Do not try to light any appliance.**
- **Do not touch any electrical switch; do not use any phone in your building.**
- **Leave the building immediately.**
- **Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.**
- **If you can not reach your gas supplier, call the fire department.**

Installation and service must be performed by a qualified installer, service agency or by the gas supplier.

⚠ WARNING

- **If the information in these instructions are not followed exactly, a fire, carbon monoxide poisoning or explosion may result causing property damage, personal injury or loss of life.**
- **Read all instructions carefully prior to beginning the installation. Do not begin installation if you do not understand any of the instructions.**
- **Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life.**
- **Installation and service must be performed by a qualified installer, service agency or the gas supplier in accordance with these instructions and in compliance with all codes and requirements of authorities having jurisdiction.**

INSTALLER: Affix the instructions on the inside of the building adjacent to the thermostat.
END USER: Retain these instructions for future reference.

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Part # 015177/07-2

⚠ AVERTISSEMENT

DANGER D'INCENDIE OU D'EXPLOSION

Ne pas respecter strictement les mises en garde de sécurité peut entraîner blessures graves, mort ou dégâts matériels.

N'entreposez pas et n'utilisez pas d'essence ou autres vapeurs ou liquides inflammables à proximité de cet appareil ou de n'importe quel autre.

CONDUITE À TENIR SI VOUS SENTEZ LE GAZ

- **N'essayez pas de mettre en marche un quelconque appareil.**
- **Ne touchez à aucun interrupteur électrique, n'utilisez pas de téléphone dans votre domicile.**
- **Quittez immédiatement les lieux.**
- **Appelez immédiatement votre fournisseur de gaz à partir d'un téléphone du voisinage. Suivez les instructions qu'il vous donnera.**
- **Si vous ne pouvez pas le joindre, appelez les pompiers.**

Installation et interventions doivent être effectuées par un installateur ou une agence de dépannage qualifiés, ou par le fournisseur de gaz.

⚠ AVERTISSEMENT

Si les informations de ces instructions ne sont pas suivies exactement, il peut en résulter incendie, empoisonnement au monoxyde de carbone ou explosion, causant dégâts matériels et dommages corporels ou même mort.

- **Lisez soigneusement toutes les instructions avant de commencer l'installation. Ne la commencez pas si vous n'avez pas assimilé toutes ces instructions.**
- **Une mauvaise exécution d'installation, réglage, altération, intervention ou entretien peut causer dégâts matériels et dommages corporels ou même mort.**
- **Installation et interventions doivent être effectuées par un installateur ou une agence de dépannage qualifiés, ou par le fournisseur de gaz en conformité avec toutes les normes et exigences des autorités ayant juridiction en la matière.**

How To Use This Manual

This manual is intended to be a guide to the use and maintenance of the Marvair® GPac line of wall mounted air conditioners with gas heat. It contains installation, troubleshooting, maintenance, warranty, and application information. The information contained in this manual is to be used by the user as a guide only. This manual does not supersede or circumvent any applicable national or local codes. For information on the efficiency, cooling and heating performance, please refer to the GPac Product Data Sheets. The most current version of all Marvair literature can be found on our website at www.marvair.com.

First read Chapter 1 and scan the entire manual before starting the unit as described in the chapter. Chapter 1 contains general, descriptive information.

If a malfunction occurs, follow this troubleshooting sequence:

1. Make sure you understand how the GPac works.
2. Identify and correct installation errors.
3. Refer to the troubleshooting information.
4. Identify defective part(s).

If you are still unable to correct the problem, contact the Factory at 1-800-841-7854 for additional assistance.

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This is the safety alert symbol ⚠. When you see this symbol on the GPac unit and in the instruction manuals be alert to the potential for personal injury. Understand the signal word DANGER, WARNING and CAUTION. These words are used to identify levels of the seriousness of the hazard.

⚠ **DANGER**	Failure to comply will result in death or severe personal injury and/or property damage.
⚠ **WARNING**	Failure to comply could result in death or severe personal injury and/or property damage.
⚠ **CAUTION**	Failure to comply could result in minor personal injury and/or property damage.

IMPORTANT is used to point out helpful suggestions that will result in improved installation, reliability or operation.

Voici le symbole d'alerte concernant la sécurité ⚠. Quand vous le voyez sur l'unité GPac et dans les manuels d'instructions, soyez conscient du risque de blessure personnelle. Assimilez la signification des mots de mise en garde DANGER, AVERTISSEMENT et ATTENTION. Ils sont utilisés pour qualifier les niveaux de gravité du risque.

⚠ **DANGER**	La non-observation entraînera des blessures graves voire mortelles et/ou des dégâts matériels.
⚠ **AVERTISSEMENT**	La non-observation pourrait entraîner des blessures graves voire mortelles et/ou des dégâts matériels.
⚠ **ATTENTION**	La non-observation pourrait entraîner des blessures et/ou des dégâts matériels mineurs.

IMPORTANT est utilisé pour mettre en évidence des suggestions utiles qui peuvent améliorer installation, fiabilité ou fonctionnement.

The manual will be divided into four parts as follows:

- Safety Rules
- Start-Up
- Maintenance
- Warranty

⚠ WARNING

Failure to observe and follow Warnings and Cautions and these Instructions could result in death, bodily injury or property damage. Read this manual and follow its instructions and adhere to all Cautions and Warnings in the manual and on the GPac unit.

⚠ AVERTISSEMENT

La non observation et l'ignorance des ces AVERTISSEMENT et ATTENTION et de ces instructions peut entraîner mort, dommages corporels ou dégâts matériels. Lisez ce manuel et suivez ses instructions, et tenez compte de tous les ATTENTION et AVERTISSEMENT dans ce manuel et sur l'unité GPac.

Safety Rules

1. The GPac wall mounted air conditioner with a gas furnace and the area around the unit must be kept clear and free of any combustible materials, including gasoline and other flammable liquids. See Chapter 4, *Safe Installation Requirements* and Chapter 5, *Installation* in the Installation Instructions.
2. The GPac wall mounted unit must be kept free and clear of insulating material. Insulating materials may be combustible. Ductwork must be of the correct material and must be properly insulated. Do not use duct liner or any combustible material on the inside of the supply duct within four feet of the unit. See *Porting and Ductwork* section in the Installation Instructions.
3. The proper and safe operation of the unit requires combustion air for operation of the gas heater and ventilation air for proper operation of the cooling cycle. Do not block the combustion or ventilation air intake or exhaust. Refer to the Installation Instructions for the required clearances around the unit. The required clearances are also shown on the Data plate on the unit.
4. Be familiar with signals of a possible lack of or reduction of combustion air. See *Air Inlet and Outlet* section of the User's Information.
5. Refer to *Start-up* section of the User's Information for starting and shutting down the GPac air conditioner with gas heat.
6. Should the gas supply fail to shut off or if overheating occurs, shut off the gas valve to the unit before shutting off the electrical supply.
7. Become familiar with all controls and shut-off valves. Make sure you know how to shut off gas and electrical power to the unit. Do not wait for an emergency before locating the gas valve and the electrical disconnect switch. If the furnace is to be shut down for an extended period of time, turn off both gas and electrical power.
8. Do not use this unit if any part has been under water. A flood damaged furnace is extremely dangerous. Attempts to use the furnace can result in fire or explosion. Immediately call a qualified service technician to inspect the unit and replace all gas controls, control system parts, electrical parts that have been wet or to replace the unit if deemed necessary.
9. Each month check:
    a. To make certain that the flue vent is not obstructed. (See the *Venting of the Furnace* section in the User's Information.)
    b. To make sure the vent connector is in place, and is physically sound and without holes or excessive corrosion. (See *Venting* section of the Installation Instructions.)

c. The supply air and return air duct connections to verify that they are physically sound, are sealed to the furnace casing. (See *Porting and Ductwork* section of the Installation Instructions.)

d. To make certain that there are no signs of deterioration of the unit and that the unit is physically sound without cracks, gaps or sagging.

e. The condensate line to make sure that condensate can flow free from the unit and the line is not obstructed.

f. The air filters to make certain that they are not dirty. Clean and/or replace as required. The fiberglass disposable type should be REPLACED before they become clogged. Dirty filters are can severely restrict air flow and are a common cause of complaints of inadequate heating and cooling.

   Filters are located behind the front panel. To change the filter, remove the front panel and slide the filters out. Replacement filters should be ONLY of the type and size as the original Marvair supplied filters.

g. To verify that the burner flame is in good adjustment.

   Allow the unit to operate for a few minutes to establish normal burning conditions. Look at the flames on the burners. They should be predominately blue in color and robust in appearance. The flame should be in the middle of the heat exchanger tubes. Check to see that all the burners are lit and that the flame does not impinge on the sides of the heat exchanger. Observe the flame. There should be little or no change to in the shape or size of the flame. Changes in the shape and size of the flame may indicate a leak in the heat exchanger. See figure 1.

   Distorted flame or yellow tips of the natural gas flame or long yellow tips on LP gas flames may be caused by one or more of the following:

   1. lint or dirt inside the burner or burner ports,
   2. lint or dirt at the air inlet between the burner and the manifold pipe, or
   3. an obstruction over the burner plate.

If any of these are visible, turn the unit off and use a vacuum or a soft brush to clean the affected areas.

It is recommended that the unit be inspected by a qualified service technician to thoroughly check and inspect the unit prior to each heating season.

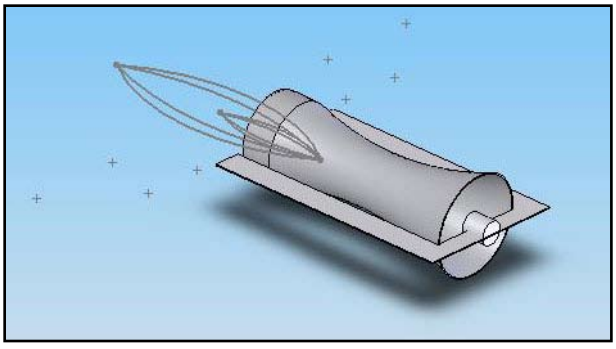

Figure 1. Burner Flame

Start-up

Before lighting the unit, smell around the unit for gas. Be sure to smell next to the floor because LP gas is heavier than air and will settle on the floor.

The gas valve on your unit is equipped with an ON/OFF knob. Use only your hand to turn the knob Never use tools. If the knob will not push in or turn by hand, do not try to repair it. Call a qualified service technician. Force or attempted repair may result in a fire or explosion.

The GPac air conditioner with gas heat is equipped with an automatic spark ignition system. There is no pilot. In case of a safety shutdown on units with electronic temperature control, shut main disconnect **OFF** and then back **ON** to reset ignition control. On units with an electro-mechanical thermostat, move the thermostat switch to **OFF** and return the thermostat switch to **HEAT**. On initial start-up of the unit in the heating mode, a burn-off of excess paint and oils remaining from the manufacturing process may cause some smoking and smell for 5-10 minutes.

Cooling Cycle

1. Set the fan switch to "Auto" and the system switch to "Off".
2. Move the cooling temperature on the wall thermostat to a point *higher* than the room temperature. Move the heating temperature to a temperature that is *lower* than the room temperature.
3. Set the thermostats system switch to "Cool" or "Auto" position. Nothing should operate at this time.
4. Set the time delay in the control box to three minutes. Note that time delay is an option on some GPac units and may not be on your air conditioner.
5. Remove the cover plate from the thermostat. Slowly lower the thermostat cooling temperature. Once the indoor fan turns on, allow approximately three minutes for the compressor and outdoor fan to start.

For units equipped with the low ambient control, note that the outdoor fan may not come on immediately, because it is cycled by refrigerant pressures. Some units have a time delay module which prevents the compressor from restarting immediately after interruption of power. See *Cooling Mode* section of the Installation Instructions for details on the operation of the low ambient control and the time delay.

Heating Cycle

1. Turn off electrical power to the unit.
2. Set thermostat to its lowest setting.
3. Remove heat section access panel.
4. Turn knob on the gas control valve to ON. Do not force. Never light the burner with a match or torch.

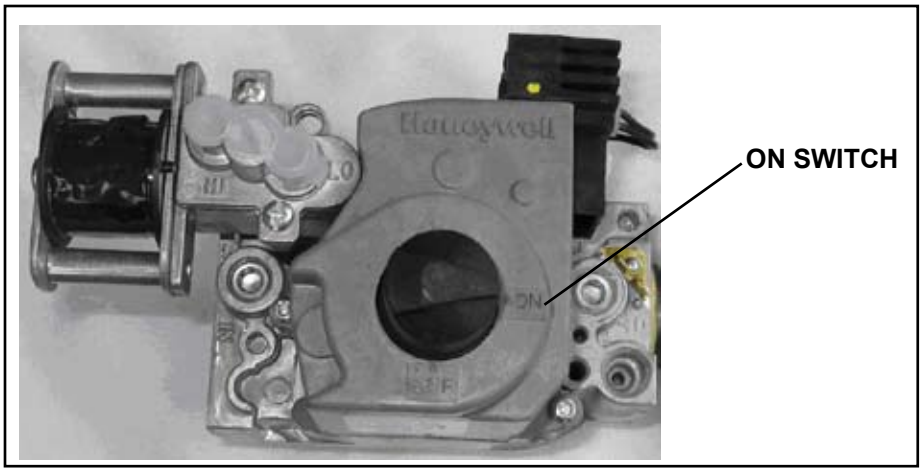

Figure 2. Gas Control Valve

5. Replace heat section access panel.
6. Turn on electrical power to the unit.
7. Set room thermostat to desired temperature.
8. On a call for heating, the air switch closes, initiating a 30 second pre-purge.
9. At end of pre-purge period, the Spark and Gas valve is energized for up to a 5 second ignition trial. Gas valve will open.
10. Burners ignite and carryover.

11. Flame is detected by the flame sensor and control operates in a steady state condition.

12. Unit continues to heat until the room temperature set point is met.

If ignition is not achieved within 5 seconds, the gas valve is shut off, the inducer keeps running for an interpurge period of 60 seconds and additional ignition trials follow the specified sequence. If after three trials for ignition have occurred without proper ignition and flame detection, the control is locked out.

Control may be brought out of lockout by cycling the thermostat or turning the main power off for at least 5 seconds. Control will also attempt another ignition sequence after a one hour after a lock out occurrence.

1. If flame is lost once it has been established, the control will shut off the gas supply within 0.8 seconds and enter the interpurge period. Control will initiate up to 3 additional trials per normal operation sequence.
2. If flame sensor indicates presence of flame during purge period, when no flame should be present, the inducer will remain energized but the gas valve will not be energized until the cause of the "false flame" is removed.
3. If the air pressure switch is closed when the inducer is energized or does not close after the inducer is energized, the control will wait one minute for the air switch to open or close and then lock out.
4. If the control detects power to the gas valve when it should be off, or if no power when it should be on, the control will go into lock out with all outputs off.

LED Flash Code	
On- Steady	Control operation normal
1 Flash	Open pressure switch, limit switch or flame rollout switch
2 Flashes	Pressure switch stuck closed
3 Flashes	Ignition/flame sensor failure
4 flashes	Repeated flame losses
5 flashes	Internal control fault
6 flashes	Repeated pressure switch losses

Maintenance

⚠ WARNING

ELECTRICAL SHOCK, FIRE OR EXPLOSION HAZARD

Failure to follow safety warnings exactly could result in dangerous operation, serious injury, death or property damage.

Improper servicing could result in dangerous operation, serious injury, death or property damage.

- **Before servicing, disconnect all electrical power to the AVG unit.**
- **When servicing controls, label all wires prior to disconnecting. Reconnect all wires correctly.**
- **Verify proper operation after servicing.**

⚠ AVERTISSEMENT

ELECTRICAL SHOCK, FIRE OR EXPLOSION HAZARD

Ne pas suivre les AVERTISSEMENTS de sécurité à la lettre peut entraîner un fonctionnement dangereux, des blessures graves ou mortelles ou des dégâts matériels.
Une intervention inappropriée peut entraîner un fonctionnement dangereux, des blessures graves ou mortelles ou des dégâts matériels.

- **Avant d'intervenir, débranchez toute alimentation électrique vers l'unité AVG.**
- **Quand vous intervenez sur des commandes, étiquetez les fils avant de les débrancher, afin de les rebrancher tous correctement.**
- **Vérifiez le bon fonctionnement après une intervention.**

Maintenance – Burner and Vent Outlet.

Marvair® strongly recommends that the unit be serviced a minimum of twice a year – once prior to the heating season and once prior to the cooling season. At this time the filters, evaporator coil, condenser coil, the cabinet, and condensate drains, the burner flame, the burner and the combustion air inlet and outlet should be serviced and inspected as described below. Also at this time, the unit should be operated in the cooling and heating cycles as described in Chapter 2, Start-Up. In addition to this seasonal check-out, the unit should be maintained as follows:

Air Filter

Replace the air filter whenever it is visibly dirty. Note: Filters must be U.L.C approved or equivalent for use in Canada.

Indoor Coil

If the coil becomes clogged or dirty, it may be cleaned by careful vacuuming or with a commercial evaporator cleaning spray. DO NOT use a solvent containing bleach, acetone, or flammable substances. Turn power OFF before cleaning. Be careful not to wet any of the electrical components. Be sure the unit has dried before restarting.

Outdoor Coil

Periodically inspect the outdoor coil and the cabinet air reliefs for dirt or obstructions. Remove foreign objects such as leaves, paper, etc.

If the coil is dirty, it may be washed off with a commercial solvent intended for this purpose. TURN OFF POWER BEFORE CLEANING! Be sure that all electrical components are thoroughly dry before restoring power.

Cabinet

The cabinet may be cleaned with a sponge and warm, soapy water or a mild detergent. Do not use bleach, abrasive chemicals or harmful solvents.

⚠ WARNING

CARBON MONOXIDE POISONING

A crack or hole in the heat exchanger could result in carbon monoxide gas which can cause death or serious injury. Carbon monoxide is colorless and odorless. Signs that there is a hole or crack in the heat exchanger include:

1. Headaches, Nausea or Dizziness.

2. Excessive humidity or heavily frosted windows or a clammy feeling in the structure.

⚠ AVERTISSEMENT

EMPOISONNEMENT AU MONOXYDE DE CARBONE

Une fissure ou un trou dans l'échangeur thermique peut laisser échapper du gaz avec monoxyde de carbone qui peut causer des troubles sévères ou mortels. Le monoxyde de carbone est sans couleur et sans odeur. Les signes pouvant indiquer un problème d'étanchéité sur l'échangeur thermique sont :

1. Maux de tête, nausées ou vertiges.

2. Humidité excessive ou fenêtres très givrées, ou viscosité sur la structure.

Drains

Regularly check the primary and secondary condensate drains. The secondary drain has a stand pipe. An obstruction will force water to dump into the middle of the unit and drain out the sides of the GPac air conditioner, causing discoloration of the side panels. If discoloration is noted, service the drains.

If a commercial drain solvent is used, flush out the drain pan and system with plenty of fresh water to prevent corrosion.

Lubrication

Oiling of the condenser fan motor or the evaporator blower motor is not recommended.

Burner Flame

Inspect the burner flame periodically during the heating season to ensure proper burner operation.

Light the burners and allow the unit to operate for a few minutes to establish normal burning conditions. Look at the flames on the burners. They should be predominately blue in color and robust in appearance. The flame should be in the middle of the heat exchanger tubes. Check to see that all the burners are lit and that the flame does not impinge on the sides of the heat exchanger. Observe the flame. There should be little or no change to in the shape or size of the flame. Changes in the shape and size of the flame may indicate a leak in the heat exchanger. See Figure 3.

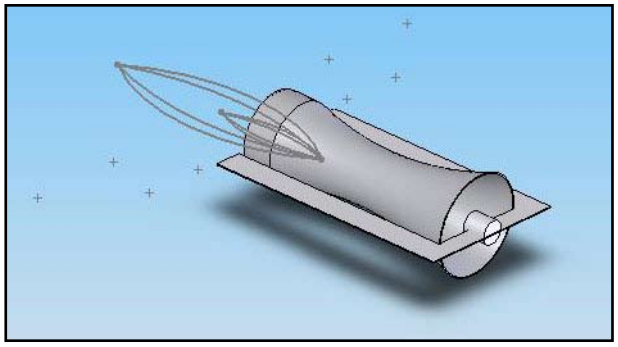

Figure 3. Burner Flame

Distorted flame or yellow tips of the natural gas flame or long yellow tips on LP gas flames may be caused by one or more of the following:

1. Lint or dirt inside the burner or burner ports,
2. lint or dirt at the air inlet between the burner and the manifold pipe, or any obstruction over the burner plate.

If any of these are visible, turn the unit off and use a vacuum or a soft brush to clean the affected areas.

Burner

Inspect the burners at least once a year, prior to each heating season, for rust, water damage or dust accumulation. The burner should be replaced if rust or water damage is present. Dust should be removed if present.

Combustion Air Inlet and Outlet

Visually inspect both the combustion air inlet and gas outlet at least once a year, prior to the heating season, to make sure that there is no build up of soot, debris or dirt. If required, clean to maintain adequate air flow.

Service reminder!

Always call a qualified service technician if the unit is not working properly. Before calling, check the following to be sure service is required:

1. Be sure the electrical disconnect is ON.
2. Check room thermostat for proper setting.
3. Replace any blown fuses or reset circuit breakers.
4. Gas valve must be ON.
5. Air filters should not be plugged, limiting air flow.
6. Make sure all service panels are in place.

Venting of the Furnace

The AVG wall mounted air conditioner with gas heat furnace is a Category I furnace, i.e., a central furnace which operates with a non-positive vent static pressure and with a flue loss not less than 17%. The furnace is fan assisted. The installation of the furnace vent must be in accordance with the National Fuel Gas Code (NFGC), ANSI Z223.1-2000/NFPA 54-2002, and /or Section 7 and Appendix C of the CSA B149.1-00, National Standard of Canada, Natural Gas & Propane Installation Code; the local building codes; furnace and vent manufacturer's instructions.

⚠ WARNING

CARBON MONOXIDE POISONING, FIRE, AND EXPLOSION HAZARD

Failure to properly vent this furnace could result in death, personal injury and/or property damage. Read and follow all the instructions in this section.

⚠ WARNING

DANGER D'EMPOISONNEMENT AU MONOXYDE DE CARBONE, D'INCENDIE OU D'EXPLOSION

Une mauvaise ventilation de cette chaudière peut entraîner blessures graves ou mortelles et/ou dégâts matériels. Lisez et respectez toutes les instructions dans cette section.

Clearances

Maintain 18" clearance between the vent hood and anything that would restrict or impede air flow from the hood. The intake of the combustion air is thru louvers located on the side of the AVG wall mounted air conditioner with gas heat furnace. Maintain 19" clearance between the louvers and anything that would restrict or impede air flow into the louvers.

Parts List

MAJOR PURCHASED PARTS		AVG42AC	AVG48AC	AVG60AC
Compressor, Scroll	ACA	10052	10202	10096
	ACC	10093	10203	10097
	ACD	10094	10204	10098
Capacitor, Scroll Compressor		50322	50294	50315 (2)
		55 / 370	60 / 440	40 / 370
Refrigerant R22 (Oz)	60 Hz	100	110	107
Sound Blanket, Compressor		20017	20038	20038
Crankcase Heater, Compressor		n/a	70044	70044
Evaporator Coil		60340	60340	60061
		3CZ1404D-	3CZ1404D-	3CY1404D-
		18 x 36	18 x 36	18 x 36
Indoor Cap Tube - Cooling		n/a	80660	n/a
		n/a	.070 x 70 (4)	n/a
Strainer (.378/.382 by Four .127/.131)		n/a	80042	n/a
Strainer (.378/.382 by Three .114/.118)		n/a	n/a	n/a
Strainer (.378/.382 by Two .127/.131)		n/a	n/a	n/a
Cap Tube / Strainer Assembly (Alternate)		n/a	20297	n/a
Distributor - Indoor		20116	n/a	20033 (9)
Orifice - Cooling		20093 (.072)	n/a	20078 (.088)
Condenser Coil		60350	60345	60345
		3CZ1402D-	3CY1303D-	3CY1303D-
		28 x36	28 x 36	28 x 36
Filter Drier		70370	70370	70389
Indoor Motor (HP/RPM)		40099	40099	40046
		1/2 1075	1/2 1075	3/4 1120
Capacitor, Indoor		50360	50360	50360
Blower, L.H.		30090	30090	30090
Blower, R.H.		30092	30092	30092
Blower Wheel / Housing		10-8 DD	10-8 DD	10-8 DD
Outdoor Motor (HP/RPM)		40098	40098	40098
		1/3 825	1/3 825	1/3 825
Capacitor, Outdoor		50240	50240	50240
Fan Blade (Clockwise Rotation)		30135	30135	30135
		T2404-20	T2404-20	T2404-20
High Pressure Control (400 Open, 300 Close)		70080	70080	70080
Low Pressure Control (35 Open, 60 Close)		70050	70050	70050
Filter (2" Thick)		81257 (2)	81257 (2)	81257 (2)
		18 x 24	18 x 24	18 x 24
Motor, Economizer (EPA)		40101	40101	40101
Enthalpy Control, H205A (EC)		70230	70230	70230
Mixed Air Relay (MAR)		50164	50164	50164
Mixed Air Sensor (MAS)		70229	70229	70229
GreenWheel Blower, Flanged, 400 CFM		50780	50780	50780
Energy Recovery Wheel		01226	01226	01226
Motor, GreenWheel Drive		40007	40007	40007
Fan Speed Controller (230 Volt)		70049	70049	70049
Belting, 3/16" Round Urethane		P/80390	P/80390	P/80390
Contactor, Compressor, 30 Amp	ACA	50020	n/a	n/a
Contactor, Compressor, 40 Amp	ACA	n/a	50030	50030
Contactor, Compressor, 30 Amp	ACC/ACD	50040	50040	50040
Circuit Breaker, 2 Pole, 60 Amp	ACA	70178	70178	70178
Circuit Breaker, 3 Pole, 60 Amp	ACC	70183	70183	70183
Circuit Breaker, 3 Pole, 40 Amp	ACD	70299	70299	70299
Fan Blower Control (BTR)		50419	50419	50419
Lockout Relay (LOR)		50214	50214	50214
Clip for Low Vibration		01257	01257	01257
Relay, Outdoor Fan Motor (OFR)		50205	50205	50205
Relay, B Damper		50420	50420	50420
Low Voltage Transformer (50 VA)		50199	50199	50199
Transformer (460 to 230 Volts)		50147	50147	50147
		1.5 KVA	1.5 KVA	1.5 KVA
Transformer (460 to 230 Volts), GreenWheel		P/50007	P/50007	P/50007
		2.0 KVA	2.0 KVA	2.0 KVA
Duct Furnace Heat Module: 45,000 Btu/Hr		n/a	n/a	n/a
Duct Furnace Heat Module: 67,500 Btu/Hr		n/a	n/a	n/a
Duct Furnace Heat Module: 90,000 Btu/Hr		n/a	n/a	n/a
Duct Furnace Heat Module: 75,000 Btu/Hr		50413		
Duct Furnace Heat Module: 100,000 Btu/Hr		50414		
Duct Furnace Heat Module: 125,000 Btu/Hr		50415		

Parts List (cont'd)

MAJOR PURCHASED PARTS		AVG42AC	AVG48AC	AVG60AC
Direct Spark Ignition Control, 24 VAC, 250 ma		50418		
Gas Valve, 2 Stage (3.5/1.2" WC High/Low)		20354		
Induced Draft Blower (230 v)		n/a	n/a	n/a
Induced Draft Blower (460 v)		n/a	n/a	n/a
Induced Draft Blower, 3000 RPM, 0.9 A, 230 v		30064		
Induced Draft Blower (460 v)				
Pressure Switch, Low (0.36" WC PR)		70377		
Pressure Switch, High (1.1" WC PF)		70373		
Flame Rollout Switch, L270				
Spark Igniter				
Flame Sensor				
In-Shot Burner (2.5 x 4.5)				
Limit Control, High (45,000 Btu/Hr)		n/a	n/a	n/a
Limit Control, High (67,500 Btu/Hr)		n/a	n/a	n/a
Limit Control, High (90,000 Btu/Hr)		n/a	n/a	n/a
Limit Control, High (75,000 Btu/Hr)		70372		
Limit Control, High (100,000 Btu/Hr)		70372		
Limit Control, High (125,000 Btu/Hr)		70372		
Limit Switch, High (45,000 Btu/Hr)		n/a	n/a	n/a
Limit Switch, High (67,500 Btu/Hr)		n/a	n/a	n/a
Limit Switch, High (90,000 Btu/Hr)		n/a	n/a	n/a
Limit Switch, High (75,000 Btu/Hr)				
Limit Switch, High (100,000 Btu/Hr)				
Limit Switch, High (125,000 Btu/Hr)				
Suppression Ignition Cable				
Nox Screen				
Gas Orifice, Natural Gas (Standard)		n/a	n/a	n/a
Gas Orifice, Propane (Standard)		n/a	n/a	n/a
Gas Orifice, Natural Gas (2.30 mm Standard)			20355	
Gas Orifice, Propane (1.50 mm Standard)			20356	
Relay, Heat/Blower, 460 Volt Only		50190	50190	50190
Relay, Condenser Fan, 460 Volt Only		50190	50190	50190

Model AVG Air Conditioner with Gas Heat Warranty Policy

If any part of your Marvair® unit fails because of a manufacturing defect within fifteen months from the date of original shipment from Marvair or within twelve months from the date of original start-up, whichever is the earlier date, Marvair will furnish without charge, EXW Cordele, Georgia, the required replacement part. Any transportation, related service labor, diagnosis calls, filter, driers, and refrigerant are not included. The owner must provide proof of the date of the original start-up. The owner's registration card filed with Marvair, the contractor's invoice, the certificate of occupancy or similar document are examples of proof of the date of the original start-up.

In addition, if the hermetic compressor fails because of a manufacturing defect within sixty months from the date of original shipment from Marvair®, Marvair will furnish without charge, EXW Cordele, Georgia, the required replacement part. Any related service labor, diagnosis calls, filter, driers and refrigerant are not included. Marvair will pay for non-priority shipping costs of the compressor during the first twelve months of the warranty period. After the first twelve months of the warranty period, all costs of shipment and risk of loss during the shipment of the compressor shall be the responsibility of the owner.

In addition, if the heat exchanger in the gas furnace fails because of a manufacturing defect within 120 months from the date of original shipment from Marvair®, Marvair will furnish without charge, EXW Cordele, Georgia, the required replacement part. Any related service labor and diagnosis calls are not included.

The owner of the product may ship the allegedly defective or malfunctioning product or part to Marvair®, at such owner's expense, and Marvair will diagnose the defect and, if the defect is covered under this warranty, Marvair will honor its warranty and furnish the required replacement part. All costs for shipment and risk of loss during shipment of the product to Marvair and back to the owner shall be the responsibility and liability of the owner. Upon written request by an owner, Marvair may arrange for remote diagnosis of the allegedly defective or malfunctioning product or part but all costs for transportation, lodging and related expenses with regard to such diagnostic services shall be the responsibility and liability of the owner.

An owner requesting performance under this Warranty shall provide reasonable access to the allegedly defective or malfunctioning product or part to Marvair® and its authorized agents and employees.

This warranty applies only to products purchased and retained for use within the U.S.A., Canada, and Mexico. This warranty does not cover damage caused by improper installation, misuse of equipment or negligent servicing.

THIS WARRANTY CONSTITUTES THE EXCLUSIVE REMEDY OF ANY PURCHASER OF A MARVAIR® HEAT PUMP OR AIR CONDITIONER AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR USE, TO THE FULLEST EXTENT PERMITTED BY LAW. IN NO EVENT SHALL ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR USE EXCEED THE TERMS OF THE APPLICABLE WARRANTY STATED ABOVE AND MARVAIR SHALL HAVE NO OTHER OBLIGATION OR LIABILITY. IN NO EVENT SHALL MARVAIR BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OR MONETARY DAMAGES.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE-TO-STATE. Some states do not allow limitations or exclusions, so the above limitations and exclusions may not apply to you.

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